

POMINAL'NIK, G.A.

POMINAL'NIK, G.A., inzhener.

Improvement of methods of thinning and mixing priming paint
no. 138. Sel'khozmashina no.12:29-30 D '53. (MIR 6:12)

1. TsZL zavoda Kurgansel'mash.

(Paint mixing)

POMM Nov 1958

5

Solvation of copper ions in ethyl alcohol with methyl alcohol additive. I. S. Parshina. *Otdeleniye Fizikal'noi Khimii, Gruzinskij Univ., im. V. I. Ul'janova-Lenina, Obzhechensk. Sbornik 110, No. 1, 112-13 (1958).* — It was found previously (P., *Dissertation Kazan. State Univ.*, 1958) that the degree of hydration of CuCl_4 depends on the concn. of CuCl_4 in aq. EtOH solns. The question arose as to the effect of the replacement of H_2O by MeOH. The absorption spectra of CuCl_4 solns. in EtOH-MeOH mixts. were investigated. The spectral shift in the system CuCl_4 -EtOH-MeOH occurs similarly to that of the system CuCl_4 -EtOH- H_2O . The spectrum of the EtOH soln. of CuCl_4 , 1000 MeOH differs from that of the CuCl_4 -MeOH soln., i.e., in the 1st soln. not all EtOH mols. are replaced by MeOH. In the interval 0.0089-0.1M CuCl_4 the no. of MeOH mols. assoc'd. with CuCl_4 in EtOH solns. was independent of the CuCl_4 concn., in contrast to the system with H_2O . This can be understood by taking into account the similarity of the 2 alcs., probably having almost identical heats of solvation. B. Ryshkevich

PM

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Distr: 4E4j

Pominov, T.S.

Distr: 4E3d

21
The utilization of the incandescent lamp for heterochromic photometry. I. S. Pominov and I. M. Petukhova. Uche-

znye Zapiski Akademii Nauk SSSR, Ul'yanov-

Leningrad. Obscheuniv. Sbornik 116, No. 1, 114-17 (1958).

Measurements were made with triplet lines of Zn: $\lambda = 4810.58$, 4722.16 , and 4680.14 Å, and with triplets of Hg lines 4360.73 , 4358.35 , and 4046.66 Å, photographed with a quartz spectrograph at 5 different temps. Current stability limit was ± 0.1 amp., causing less than 20° temp. variation, corresponding to intensity variations of the order 2%. Results obtained with this method coincided well with known best data and proved the applicability of the lamp for heterochromic photometry.

E. Ryshkewitch

JK

POLYANSKIY, Yu. I.

Thermal adaptations in infusorians. Report No.2: Changes in the heat and cold resistance of Paramecium caudatum during cultivation at low temperatures. TSitologija 1 no.6:714-727 N-D '59.

1. Laboratoriya tsitologii odnokhletochnykh organizmov Instituta tsitologii AN SSSR, Leningrad.
(TEMPERATURE--PHYSIOLOGICAL EFFECT) (ADAPTATION (BIOLOGY))
(INFUSORIA)

POLYANSKIY, Yu.I.; BYKHOVSKIY, B.Ye.

Results and outlook for the work of Soviet parasitologists in
studying the parasites of fishes in seas of the U.S.S.R. Trudy
sov.Ikht.kom. no.9:177-183 '59. (MIRA 13:5)

1. Zoologicheskiy institut AN SSSR i Leningradskiy gosudarstvennyy
universitet imeni A.A.Zhdanova.
(Parasites--Fishes)

Pominay, I.S.

Relation of the temperature of an a.c. arc to the ionization potential of electrode material. L. V. Popov and I. S. Pominay. Uchenys Zapiski Kazan. Univ. 113, No. 9, 107-9 (1953); Referat. Zhur., fiz. 1955, No. 14447. — The relation of the temp. of an a.c. arc to the ionization potential of electrode material was studied. One of the electrodes was made of Armco iron with an admixt. of 1.2% Cu. In the 2nd electrode (from pure Armco iron) an opening was made with a diam. of 2 mm., in which the metal being studied was introduced in the form of a salt. Temp. of the arc was measured on a stylograph by the Cu line. The Fe was used for a line of comparison. The linear relation of temp. to ionization potential of the admixt. element was obtained. It was concluded that the discharge mechanism was basically the same for an a.c. arc and for a d.c. arc. (The linear relation of temp. to the ionization potential of the admixt. for a d.c. arc was established by O. P. Semenova (C.A. 40, 56324).) Marion Ketner

POMINOV, I. S.

Pominov, I. S. — "Absorption Spectra Investigation of the Hydration and Solvation of Ions of Copper, Cobalt, and Neodymium in Alcoholic Solutions with Additions of Water." Min Higher Education USSR, Kazan' State U imeni V. I. Ul'yanov-Lenin, Kazan', 1955. (Dissertation for the Degree of Candidate in Physicomathematical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, June 1955, pp. 87-104

Pominov, I. S.

USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 495

Author: Pominov, I. S.

Institution: Kazan University

Title: On the Solvation of Cu Ions in Ethyl Alcohol in the Presence of Methyl Alcohol

Original
Periodical: Uch. zap. Kazansk. un-ta, 1956, Vol 116, No 1, 112-113

Abstract: It has been established from a study of the absorption spectrum of CuCl_2 solutions in $\text{CH}_3\text{OH} + \text{C}_2\text{H}_5\text{OH}$ that a number of CH_3OH molecules in the solvation envelope of the Cu^{2+} ion remains constant for CuCl_2 concentrations from 0.0089 to 0.1 M. The author explains the constancy of the number of CH_3OH molecules in the mixed solvation envelope of Cu^{2+} in the system $\text{CH}_3\text{OH}-\text{C}_2\text{H}_5\text{OH}-\text{CuCl}_2$ and the small number by the small difference in the properties of the 2 alcohols as a result of which CH_3OH displaces $\text{C}_2\text{H}_5\text{OH}$ to a limited extent from the solvation envelope. The heat of solution of Cu^{2+} in methyl and ethyl

Card 1/2

Card 2/2

POMINOV, I.S.; PETUKHOVA, I.M.

Application of the thermal radiation lamp in heterochromatic photometry. Uch.zap.Kaz.un. 116 no.1:114-117 '55. (MLRA 10:5)

1.Kafedra molekulyarnykh i teplovykh yavleniy.
(Electric lamps, Incandescent) (Photometry)

PRIKHOT'KO, A.F.

24(7) 13 PHASE I BOOK EXPLOITATION Sov/1365

L'vov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii. t. 1:
 Molekul'arnaya spektroskopiya (Papers of the 10th All-Union
 Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy)
 [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies
 printed. (Series: Its: Plizchuyy zhurnal, vyp. 3/8)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
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 Kornitatskij, V.O., Candidate of Technical Sciences, Rayskiy, S.M.,
 Candidate of Physical and Mathematical Sciences, Klinovskiy, L.K.,
 Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S.,
 A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

Pominov, I.S. Study of Ion Solvation in Alcohol-aqueous Solutions by Means of Absorption Spectra	213
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Card 15/30

POMINOV, I.S.

Solvation of neodymium ions in alcohol-aqueous solutions [with
summary in English]. Zhur.fiz.khim. 31 no.9:1926-1929 S '57.
(MIRA 11:1)

1.Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.
(Solvation) Neodymium) (Alcohol)

POMINOV, I.S.

MISCHENKO, K.P.; POMINOV, I.S.

Solvation of ions in electrolyte solutions. Part 5: Coordination numbers of copper, cobalt, and neodymium ions associated with their hydration in alcohol aqueous solutions [with summary in English].
Zhur.fiz.khim. 31 no.9:2026-2031 S '57. (MIRA 11:1)

1.Leningradskiy tekhnologicheskiy institut. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.
(Solvation) (Copper) (Cobalt) (Neodymium)

Pominov, I.S.

76-10-3/34

AUTHOR:

Pominov, I.S.

TITLE:

Application of the Absorption Spectra of Aqueous Alcohol Solutions of Electrolytes in Studies on Ion Solvation (Primeneniye metoda spektrov pogloshcheniya spirto-vodnykh rastvorov elektrolitov dlya izucheniya sol'vatatsii ionov)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 10, pp. 2184-2190
(USSR)

ABSTRACT:

The possibility of using the method of the absorption spectra of aqueous alcohol solutions of electrolytes for the determination of coordination figures of the ion hydration is investigated here. The investigation method as well as the experiment itself are described and following shown: 1.) The equations for the determination of the water molecule number n (of the molecules present in the mixed water-alcohol ion shell) are derived. Since these equations are transcendental with respect to n , it is shown by experimental way that in the case of great n , the same can be replaced by other equations which are linear with respect to n . 2.) It is shown that in the determination of n within the range of the absorption of solutions the measurements can be carried out at arbitrary

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Application of the Absorption Spectra of Aqueous Alcohol Solutions of Electrolytes in Studies on Ion Solvation

76-10-3/34

trary wave length if the absorption maximum lacks in the spectra of the aqueous alcohol solutions of electrolytes. 3.) For cupric chloride - CuCl₂ at a concentration of 0,01784 mol/litre in an aqueous alcohol solution the water molecule number contained in the mixed water alcohol shell of the Cu²⁺-ion was measured. The number was two. n_o - water molecule per salt molecule. There are 2 figures, 2 tables, 11 Slavic references.

ASSOCIATION: Kazan' State University imeni V.I. Ul'yanov-Lenin
(Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina)

SUBMITTED: November 26, 1955

AVAILABLE: Library of Congress

Card 2/2

3(1)

AUTHORS:

Batuрова, Г.С., Поминов И.С.,
Столов, А.Л., Смирнова, Н.Н.

SOV/33-36-2-6/27

TITLE:

Spectroscopic Observations of the Corona During the Total
Solar Eclipse of June 30, 1954

PERIODICAL:

Astronomicheskiy zhurnal, 1959, Vol 36, Nr 2, pp 247-253 (USSR)

ABSTRACT:

The paper contains an evaluation of the observations of the expedition of the AOE ; position of the expedition : stanitsa Novo - Rozhdestvenskaya of the Krasnodar district, $\lambda = 2^{\text{h}}39^{\text{m}}44^{\text{s}}$ westward from Greenwich, $\varphi = +45^{\circ}53'2''$; time : June 30, 1954. The results of the evaluation of two spectrograms of the corona in visual region are given (taken by I.S. Pominov and N.N. Smirnova). The obtained spectra contain five coronal lines with the wave lengths 6375, 5303, 4312, 4232, 4087 Å . The electron density of the solar corona was calculated according to the method of A.F. Bogorodskiy and N.A. Khinkulova for $\xi = 1.05$ to 2 from the coronal component of the continuous spectrum. The decrease of the electron density with increasing ξ is somewhat slower than obtained by Bogorodskiy and Khinkulova. G.A. Shayn is mentioned. The authors thank Professor

Card 1/2

5

Spectroscopic Observations of the Corona During the SOV/33-36-2-6/27
Total Solar Eclipse of June 30, 1954

D.Ya. Martynov and N.D. Kalinenkov for their assistance.
There are 5 figures, 5 tables, and 16 references, 9 of which
are Soviet, 4 German, 1 English, 1 French, and 1 Japanese.

ASSOCIATION: Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-
Lenina (Kazan' State University imeni V.I. Ul'yanov-Lenin)

SUBMITTED: May 15, 1958

Card 2/2

POMINOV, I.S.

Comments on the paper by I.I. Antipova-Karataeva and E. E.
Vainshtein, "Study of ion solvation in solution by means of
absorption spectra." Zhur. neorg. khim. 6 no.3:759 Mr '61.
(MIRA 14:3)

(Solvation)

POMINOV, I.S.

Comments on the paper by I. I. Antipova-Karataeva and E. E. Vainshtein, "Study of ion solvation in solution by means of absorption spectra." Metallurg 6 no.4:759 Ap '61. (MIRA 14:3)
(Solvation)

(Antipova-Karataeva, I.I.)

(Vainshtein, E.E.)

POMINOV, I.S.

Absorption of alcohol-water solvated Cu²⁺ ion. Zhur.fiz.khim. 35
no.10:2392-2393 O '61. (MIRA 14:11)

1. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina.
(Copper chloride--Spectra) (Ethyl alcohol)

POMINOV, I.S.; VAILOV, N.N.; FROLOV, G.I.

Cryostat to the SF-4 spectrophotometer for investigating
liquids at low temperature. Zav. lab. 30 no.5:634 '64.

(MIRA 17:5)

1. Kazanskiy gosudarstvennyy universitet.

POMINOV, I.S.; MAKAROVA, Ye.K.

Absorption spectra of cobalt chloride solutions in organic solvents
at low temperatures. Zhur.neorg.khim. 9 no.1:94-98 Ja '64.

(MIRA 17:2)

1. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina.

5/051/62/012/005/017/021
E032/E414

AUTHOR: Pominov, I.S.
TITLE: Absorption spectra of neodymium chloride in alcohol-water solutions at low temperatures
PERIODICAL: Optika i spektroskopiya, v.12, no.5, 1962, 639-641
TEXT: This is a continuation of previous work (ZhFKh, v.31, 1957, 587). In this note the author reports eight absorption spectra of alcohol solutions of NdCl_3 at temperatures between +20 and -180°C. The concentration of NdCl_3 was 0.5 mole/litre. It was found that at room temperature the maximum absorption occurred at 4296 Å. The position of the maximum shifted by 3 Å towards shorter wavelengths when the temperature was reduced to -180°C. However, as the temperature was reduced, the "alcohol band" at 4296 Å acquired a companion "water band" which lay at 4272 Å. This band appears at -87°C and below. It could also be made to appear at higher temperatures by the addition of 4 or 12 molecules of water per each molecule of NdCl_3 . Moreover, the addition of water shifted the 4296 Å band towards shorter wavelengths. At the same time, the absorption at this wavelength increased with

Card 1/2

POMINOV, I.S.; MAKAROVA, Ye.K.

Study of solutions of cobalt halides in organic solvents at low temperatures from the irabsorption spectra. Ukr. fiz. zhur. 9 no. 5:502-512 My '64. (MIRA 17:9)

1. Kazanskiy gosudarstvennyy universitet.

L 2180-66 EWT(m)/EPF(c)/EWP(j)/EWA(e) RPL WW/RN
ACCESSION NR: AR5014390

UR/0058/65/000/004/D027/D027

56

B

SOURCE: Ref. zh. Fizika, Abs. 4D202

44,51

44,55

AUTHOR: Pominov, I. S.; Gadzhiev, A. Z.; Maklakova, L. N.

44,55

TITLE: Temperature dependence of IR-band absorption in acetonitrile and ionic
solutions of acetonitrile 44,55

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 226-234

44,55

TOPIC TAGS: IR absorption, temperature dependence, organic solvent

TRANSLATION: In the temperature interval +90 to -105°C a study was made of the infrared absorption of the C ≡ N and C-H groups in acetonitrile both in its pure form and also after the addition of certain salts. In the solutions, as the temperature is lowered, a new band appears in addition, to a shift of the band which exists at room temperature, and an increase in its intensity. The results are compared with the theoretical dependence of the intensity of infrared absorption on temperature. 12 references.

SUB CODE: GC, OP

ENCL: 00

Card 1/1

GADZHILYEV, A.Z. & POMINOV, I.S.

Temperature effect on infrared absorption bands of ionic solutions
of acetonitrile in the solid phase. Opt. i spektr. 17 no.6:859-
862 D '64. (MIRA 18:3)

L 46832-66
ACC NR: AR6013638

EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/RM

SOURCE CODE: UR/0058/65/000/010/D049/D049

AUTHOR: Makarova, Ye. K.; Pominov, I. S.

50
B

REF SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1963 g. Sekts.: paramagnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan, 1964, 46-49

TITLE: The temperature dependence of the absorption spectrum of cobalt chloride in acetone and the binding energies of cobalt ions with molecules of the solvent

SOURCE: Ref. zh. Fizika, Abs. 10D340

TOPIC TAGS: absorption spectrum, nuclear binding energy, temperature dependence

TRANSLATION: It is shown that for solutions of CoCl_2 in acetone the absorption increases with decrease in temperature in the 400-800 μm range (except in the 720-760 μm range). Absorption decreases in the 600-700 μm range when CoCl_2 is dissolved in alcohol. This is explained as due to the stability of the cobalt-halogen complexes in the first case, while in the second case the chloride ion complexes can be substituted by the molecules of the solvent at the lower temperatures. The stability of the complexes is established by the change in enthalpy of solutions, and the following sequence was established: methanol > ethanol > butanol > propanol > iso-butanol (iso-butyl alcohol).SUB CODE: 20/
Card 1/1 BLG

-SUBM-DATES--

L 33280-66 EWP(j)/EWT(m) RM/JW
ACC NR: AR6017228

SOURCE CODE: UR/0058/65/000/012/D016/D016

AUTHOR: Pominov, I. S.

35
B

TITLE: Binding energy in systems containing ions

SOURCE: Ref. zh. Fizika, Abs. 12D120

REF SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1963 g. Sekts.: paramagnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan', 1964, 20-22

TOPIC TAGS: hydrogen bonding, absorption band, monomer, complex molecule, molecular structure, methyl alcohol, phenol, water

ABSTRACT: By using the results of N. D. Sokolov's theory of the hydrogen bond, Badger's empirical relation, and the experimental values of the frequencies of the absorption bands of monomers and associated complexes, the author calculates the binding energy (E) in a number of systems containing ions. The values of E obtained for molecules of methyl alcohol, phenol, and water with ions agree in order of magnitude with the energy of the hydrogen bond in other systems. Ye. Pshenichnov
[Translation of abstract]

SUB CODE: 07/

Card 1/1

L 33285-66 EWT(m)/T RM/WW/JW/JWD
ACC NR: AR6017232

SOURCE CODE: UR/0058/65/000/012/D032/D032

AUTHORS: Gadzhiyev, A. Z.; Pominov, I. S.

TITLE: Influence of temperature on the infrared absorption bands of ionic solutions of acrylonitryl

SOURCE: Ref. zh. Fizika, Abs. 12D260

REF SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1963 g Sekts.: para-magnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan', 1964, 27-30

TOPIC TAGS: organic solvent, ir spectrum, ir absorption, absorption band, temperature dependence, chemical bonding

ABSTRACT: To investigate the influence of lowering the temperature on the valence oscillations of the C≡H, C-H, and C-C bonds of ionic solutions of acrylonitryl and n on the C-C bond of ionic solution of acetonitril, the ir spectra were obtained of solutions of the salts $Mg(ClO_4)_2$, $LiClO_4$, and LiI in acrylonitryl and acetonitril.
[Translation of abstract]

SUB CODE: 20, 07

Card 1/1 Pfy

L 33995-66 EWT(m) WV/JW/JWD/RM
ACC NR: AR6017236

SOURCE CODE: UR/0058/65/000/012/D036/D036

78

AUTHOR: Pominov, I. S.; Gadzhiev, A. Z.

TITLE: Intermolecular interaction in solutions of nitriles and calculation of the β binding energy of complexes^B

SOURCE: Ref. zh. Fizika, Abs. 12D299

REF SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1963 g. Sekts.: para-magnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan', 1964, 31-34

TOPIC TAGS: ir spectrum, frequency shift, organic nitrile compound, chemical bonding, complex molecule, bond energy, molecular interaction

ABSTRACT: Infrared spectra were used to investigate the occurrence of frequency shifts of the valence oscillations of C≡N and C-H bonds of acetonitrile and acrylonitrile molecules in which Mg(ClO₄)₂, LiClO₄, and LiI salts have been dissolved. An increase in the oscillation frequency of the C≡N group in the investigated solutions, compared with the oscillation frequency of the C≡N group of the free molecule of the nitriles, is attributed to the strengthening of the C≡N bond upon formation of the nitrile complex with the cation of the salt. A scheme is proposed for the interaction between the ions and the nitrile molecules, based on an examination of the shift of the frequencies relative to the group of bonds in the molecules of the investigated nitriles. Using earlier temperature measurements of the solutions of the salts

Card 1/2

L 33995-66

ACC NR: AR6017236

in acetonitrile and acrylonitrile, the authors calculate the binding energies of the produced complexes. The values of the energy obtained for the bond formed between the C-H group of the nitriles and the I⁻ agree with the values of the energy calculated by the authors by using N. D. Sokolov's theory and Badger's empirical relation. I. Reznikova. [Translation of abstract]

SUB CODE: 20, 07

Card 2/2

GADZHIYEV, A.Z.; POMINOV, I.S.

Temperature dependence of infrared absorption spectra and
characteristics of ion molecular interaction in acetone.
Zhur. neorg. khim. 10 no.6:1490-1493 Je '65.

(MIRA 18:6)

1. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-
Lenina.

GADZHIYEV, A.Z.; POMINOV, I.S.

Effect of temperature and the dissolution of salts on the infrared absorption bands of acrylonitrile. Opt. i spektr. 18 no.1:154-156
(MIRA 18:4)
Ja '65.

L 49770-65

ACCESSION NR: AR5012247

UR/0058/65/000/003/D030/D030

SOURCE: Ref. zh. Fizika, Abs. 3D215

16

AUTHORS: Makarova, Ye. K.; Pominov, I. S.

B

TITLE: Effect of temperature on the absorption spectra of solutions of halides of copper (II)

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 608-617

TOPIC TAGS: copper halide, temperature effect, absorption spectrum, infrared spectrum, ultraviolet spectrum

TRANSLATION: The absorption spectra of CuCl₂ and CuBr₂ in alcohols, acetonitrile, and formamide, and of the same solutions with LiCl and LiBr were investigated in the temperature interval from room temperature to -120°C in the ~ 0.35--2 μ region. A decrease in the temperature of alcohol solutions leads to a change in the magnitude of the absorption and to a shift in the maximum of the absorption in the near infrared region and of the absorption edge of the continuous absorption in the near

Card 1/2

L 49770-65
ACCESSION NR: AR5012247

ultraviolet region of the spectrum. The effect of temperature and of addition of lithium halides on the absorption spectra of copper halides (II) is compared.

SUB CODE: OP, IC ENCL: 00

B5B
Card 2/2

POMINOV, I. S.; STOLOV, A. L.

Absorption of optical crystals in the infrared region for the
temperature range 93° to 693°K. Izv. AN SSSR. Ser. fiz. 27
no.1:29-32 Ja '63. (MIRA 16:1)

I. Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina.

(Crystal optics)

POMINOV, I.S.

Absorption spectra of alcohol-water solutions of neodymium chloride at low temperatures. Ukr.fiz.zhur. 7 no.7:796-799
Jl '62. (MIRA 15:12)

1. Kazanskiy universitet.
(Neodymium chloride—Spectra) (Cryostat)

9:5320
343450

44940

3/048/63/027/001/015/045
B163/B180

AUTHORS: Pominov, I. S., and Stolov, A. L.

TITLE: Absorption of optical crystals in the infrared region in
the temperature range 93 - 693°KPERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 27, no. 1, 1963, 29-32

TEXT: The infrared absorption spectra of a number of fluoride crystals were recorded in a double-ray Hilger spectrometer using a double-ray thermocryostat with KBr windows. The thermal radiation of the crystal itself were allowed for as follows. T the transmissivity of the crystal was calculated from the relation $T = (T_1 - T_2)/(1 - T_3)$ where T_1 is the transmissivity without allowing for the negative radiation, T_2 the same where the light beam passing through the crystal is partially stopped before reaching the cryostat, and $T_3 = 1$ the transmissivity of the diaphragm when the crystal is removed. The measurements were made with a MKC-11 (IKS-11) spectrometer with a yg-206 (UF-206) detector. Apart

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S/048/63/027/001/013/043
B163/B180

Absorption of optical crystals in ...

from water bands in LiF and SrF₂ the spectra have no band structure.

Below 5 microns, the transmissivity is almost independent of wavelength, and the optical density of the crystals is slightly temperature dependent. In the range of proper absorption of the crystal lattice the theoretically predicted decrease of transmissivity with rising temperature is found. The table lists ν_n the wave numbers at which the absorption begins, and

λ_T the positions of the continuous absorption edge ($T < 25\%$) as a function of absolute temperature t . This can be approximated by a linear function $\lambda_T = a - (t/b)$. The a and b values are also given. In SrF₂, bands are observed at 1620, 3400, and 3770 cm⁻¹, and in LiF at 3700 cm⁻¹, which are attributed to the influence of water. After heat treatment, another band was observed at 1445 cm⁻¹ in SrF₂, which could not be identified. This paper was presented at the 14th Conference on Spectroscopy in Gor'kiy, July 5-12, 1961. There are 3 figures and 1 table.

ASSOCIATION: Kazanskiy gos. universitet im. V.I. Ul'yanova-Lenina
(Kazan' State University imeni V.I. Ul'yanov-Lenin)

Card 2/3

POMINOV, I.S.

Absorption spectra of neodymium chloride in aqueous-alcoholic
solutions at low temperatures. Opt.i spektr. 12 no.5:639-641
My '62. (MIRA 15:5)

(Neodymium chloride--Spectra)

PONOMAREV, D.D.

Discovery of ancient laterites. Izv.AN Kazakh.SSR.Ser.geol.
no.23:155-158 '56. (MLRA 10:1)
(Laterite)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342030012-5

KAZANTSEV, I. I., inzh.; POMINOV, L.V.; KUPLEVATSKIY, A.N.

Making prestressed arched girders in construction yards.
Bet. i zhel.-bet. no.1:33-34 Ja '60. (MIRA 13:5)
(Nizhniy-Tagil'--Girders)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342030012-5"

POMINOV, N.M., inzhener.

Developing Moscow's telephone system. Gor.khoz.Mosk. 28 no.3:11-14
Mr '54. (MLRA 7:6)
(Moscow--Telephone) (Telephone--Moscow)

POMINOV, N.M.

The telephone system of the capital. Gor. khoz. Mosk. 35 no.10:
36-37 0 '61. (MIRA 16:7)

1. Nachal'nik Upravleniya moskovskoy telefonnoy seti.
(Moscow—Telephone stations)

POMINOV, N.M.

Expansion of the telephone system in Moscow according to the seven-year plan. Gor.khoz.Mosk. 33 no.8:15-17 Ag '59. (MIRA 12:11)

1. Nachal'nik Upravleniya Moskovskoy gorodskoy telefonnoy seti.
(Moscow--Telephone)

POMINOV, N.M., inzhener.

Developing the automatic telephone network. Gor.khoz.Mosk.29 no.2:
26-28 F '55.
(Moscow--Telephone, Automatic) (MIREA 8:5)

POMINOV, N. M.

PA 65T31

USSR/Communications - Equipment Apr 1948
Efficiency, Industrial

"Losses in the ATS, and Their Control," N. M.
Pominov, Engr, 1 p

"Vest Svyazi - Elektro-Svyaz" No 4 (97)

Andrey Yakushin of the Second Moscow Watch Works developed method for industrial economy that should have great significance for increasing the efficiency of ATS apparatus. Describes economy means for controlling traffic over wires by eliminating much unnecessary traffic.

FIDB

65T31

TOMASHIN, A.K.; KIRYUSHKIN, K.I.; SHIPITSYN, A.V.; KRAVTSOV, V.M.;
POMINOV, S.Ya.; BUSHUYEV, T.I.

Basic trends in the development of tank farms; results of the
discussion of the article by A.G.Dubiaga and others, published
in "Neftianoe khozaiastvo" no.8, 1960; conclusion. Neft.
khoz. 39 no.4:60-64 Ap '61. (MIRA 14:6)

(Petroleum—Storage)
(Dubiaga, A.G.)

BELYANCHIKOV, M.P.; PLESKOV, Yu.V.; POMINOV, V.G.

Instrument with a rotating disc electrode. Zhur.fiz.khim.
34 no.7:1638-1642 Jl '60. (MIRA 13:7)

1. Akademiya nauk SSSR, Institut elektrokhimii.
(Electrodes) (Chemical apparatus)

POMINOVA, G. I.

"Development and Investigation of Methods of Breaking Up a Long Log Raft After It Reaches Its Destination." Cand Tech Sci, Moscow Forestry Engineering Inst, Min Higher Education, Moscow, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

PIMENOV, Aleksandr Nikolayevich; POMINOVA, Galina Ivanovna; NIKOLAYEVA, M.I.,
redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor

[Floating tree-length logs and bucking them on the roadstead] Splav
khlystov i ikh razdelka na reidakh proplava. Moskva, Goslesbumizdat,
1956. 68 p.
(Lumbering) (MIRA 10:1)

2884 Pominova, G. I.

Razrabotka i issledovaniye snosoboy razdel'di khlystov na reydakh pri olaze.
M., 1954. 20 s. 21 sm. (M-vo vyssh. obrazovaniya SSSR. Mos't. lesotechn. in-t)
110 Ekz. B. Ts. - (54-56120)

BOBKOVА, T.P., prepodavatel' kursov kroyki i shit'ya; GURBO, A.I., prepodavatel' kursov kroyki i shit'ya; ZHIVAYEVA, Ye.I., prepodavatel' kursov kroyki i shit'ya; ZEMSKOVА, O.V., prepodavatel' kursov kroyki i shit'ya; IVSENKO, A.V., prepodavatel' kursov kroyki i shit'ya; MARTOPLYAS, L.V., prepodavatel' kursov kroyki i shit'ya; MARTYNOVA, F.V., prepodavatel' kursov kroyki i shit'ya; PANOVА, V.P., prepodavatel' kursov kroyki i shit'ya; POMINOVA, M.G., prepodavatel' kursov kroyki i shit'ya; RYZHICHKINA, M.I., prepodavatel' kursov kroyki i shit'ya; SYCHEVA, T.A., prepodavatel' kursov kroyki i shit'ya; FILANOVICH, O.F., prepodavatel' kursov kroyki i shit'ya; BRUNEVSKAYA, M., red.; TRUKHANOVA, A., tekhn. red.

[Practical handbook on garment cutting and sewing] Prakticheskoe posobie po kroike i shit'iu. 4. izd. Minsk, Gos.izd-vo BSSR Red. nauchno-tekhn.lit-ry, 1961. 607 p. (MIRA 14:12)

1. Minskij Okruzhnoj Dom ofitserov im. K.Ye.Voroshilova i klub im. F.E.Dzerzhinskogo (for all except Brunevskaya, Trukhanova).
(Dressmaking—Pattern design) (Sewing)

LEBSON, Stefan; POMINSKI, Maciej

A new type of rectifier phase meter. Przegl elektrotechn 41 no.3:
84-85- Mr '65.

1. Department of Electric Measurements of the Warsaw Technical
University.

GORELIK, B.M.; MAREY, A.I.; BUKHINA, M.F.; NOVIKOVA, G.Ye.; POMIRCHAYA, B.A.

Effect of filling with carbon black on the crystallization of
rubber. Kauch.i rez. 23 no.11:13-18 N '64.

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti
Vsescyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka im. S.V.Lebedeva. (MIRA 18:4)

L 17563-65 EWI(m)/EWP(j) PC-4 RM
ACCESSION NR: AP4049782

S/0138/64/000/011/0013/0018

AUTHOR: Gorelik, B. M.; Marey, A. I.; Bukhina, M. F.; Novikova, G. Ye.;
Pomirchaya, B. A.

TITLE: Effect of carbon-black filler on rubber crystallization

SOURCE: Kauchuk i rezina, no. 11, 1964, 13-18

TOPIC TAGS: rubber crystallization, natural rubber, synthetic rubber, carbon black
filler, polysulfide crosslink, monosulfide crosslink, rubber elasticity

ABSTRACT: The literature on the effect of fillers is sparse and contradictory and applies only to natural rubber. This work is an attempt to expand the knowledge to both natural and synthetic rubbers. Two methods of investigation were used - a study of the crystallization of rubbers in the free state by the dilatometric method, and a study of deformed rubbers from the point of view of recoverability. A comparison was made of the kinetic curves obtained by the dilatometric methods those obtained from the change in recoverability. The kinetics of crystallization of natural rubber were studied at -25C, those of synthetic rubber SKI-3 at -25C and of rubber SKD at -38, -45, and -56C. Data on crystallization of deformed rubber were processed with the aid of the formula $\lg t_{1/2} = \lg t_{1/2}^0 - B\sigma$,

Card 1/2

L 17563-65

ACCESSION NR: AP4049782

where $\lg t_{1/2}$ is the log of the half-period of crystallization, $\lg \tau_{1/2}^0$ is the segment cut off by the straight line on the axis and corresponds to the half time of crystallization of the sample in the absence of crystallization; and B is a magnitude showing the effect of stress on crystallization and determined as the tangent of the angle of the slope of the characteristic straight line to the axis τ . For unstressed rubbers, the ability to crystallize increases with an increase in the carbon-black content. The same was observed for rubbers crystallizing under conditions of deformation (compression).⁴ The influence of filling depends on the type of transverse links. For natural rubber and SKI-3 with a predominant content of polysulfide links, there is a noticeable change in the parameters $\lg \tau_{1/2}^0$ and B. For rubbers with a predominant content of monosulfide links, filling changes these parameters very little. In the case of SKD, filling affects crystallization analogously. Orig. art. has: 5 figures, 1 table and 1 formula.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute for the Rubber Industry); Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute for Synthetic Rubber)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 004

OTHER: 004

Card 2/2

POMIRCHI, M. E.

166T14

USSR/Electricity - Demand Factor
Industrial Power

Sep 50

"Methods and Factors Used in Determining the
Electrical Load in Industrial Enterprises,"
M. E. Pomirchi, Engr

"From Energet" No 9, p 10

Criticizes authors who calculate total electrical load in an industrial enterprise by combining load components of groups of machines with similar operating conditions. Asks industrial enterprises to use, as basis for future design,

-FDD

166T14

USSR/Electricity - Demand Factor (Contd)

Sep 50

demand factors calculated for each separate branch of production such as mechanical, casting, heating, and galvanizing.

FDD

166T14

POMIRCHI, M.Ye.

Concerning T.P. Musatov's article "Reserve connections in the electric power distribution networks of industrial enterprises." Prom. energ. 18 no.8:60-61 Ag '63. (MIRA 16:9)

1. Gosudarstvennyy proyektnyy institut elektrotehnicheskoy promyshlennosti.
(Electric power distribution)
(Musatov, T.P.)

POMIRCHIY, R. (Leningrad); SAMYLKIN, B. (Leningrad); FREYDIN, R. (Leningrad)

Changing the design of gas water heaters. Pozh.delo 9 no.3:15 Mr '63.
(MIRA 16:4)
(Water heaters)

POMIECHIY, N.I., inzh. (Eng.)

Increasing the operational efficiency of output cyclones. Energetik
13 no.10:8-9 0 '65. (MIRA 18:10)

TATARENKO, N.I., inzh.; POMIRCHIY, R.J., inzh.; MYAKAS, V.I., inzh.

Accelerated pre-start acid cleaning of a 150 Mw. block. Teplo-
energetika 10 no.10:59-62 0:63 (MIRA 17:7)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii
i ratsionalizatsii rayonnykh elektrostantsiy i setey i Litov-
skaya gosudarstvennaya rayonnaya elektrostantsiya.

POMIRCHIY, R.I., inzh.

Improvement of the separators of the BKZ-50-39F boiler.
Energetik 11 no.3:7-8 Mr '63. (MIRA 16:4)

(Boilers) (Feed-water purification)

POMIRCHIY, R.I., inzh.; SOLOV'YEV, V.N., inzh.

Study of circulatory reliability of 42x5 mm. water walls of the
TGM-94 boiler. Energomashinostroenie 11 no.9:12-14 S '65.
(MIRA 18:10)

POMIRLEANU, Jean, ing.

Construction of direct current network analyzers by the Enterprise
for Electric Power Rationalization and Modernization, Energetica
Rum 11 no.7:359-362 J1 '63.

POMIRLEANU, M.; BUDLEANU, C.; ANTONIU, I.

Functioning of an induction motor with squirrel cage under deforming conditions of tension. In French. p. 239.

REVUE D'ELECTROTECHNIQUE ET D'ENERGETIQUE. JOURNAL OF ELECTROTECHNICS AND ENERGETICS. (Academia Republicii Populare Romine. Institutul de Energetica) Bucuresti, Romania
Vol. 3, no. 2, 1958.

Monthly list of Eastern European Accession Index (EEAI) LC vol. 8, No. 11
November 1959
Uncl.

POMIRLEANU, M.

(1)

MANEA, F.

RUMANIA

Bucharest, Studii si Cercetari de Energetica/Seria A
Energetica Generala si Electroenergetica, No 2, 1962, pp 249-263.

"Rapid Regulating Possibilities of a Rheostatic Voltage Regulator
with Rolling Sections. Use of the "Mecan" Analog Computer for
Studying the Stability of Adjustment of an Asynchronous Machine."

Co-authors:

IONESCU, S.

POMIRLEANU, M.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342030012-5

IONESCU, S.; NICOLAE, P.; POMIRLEANU, M.

Principles of secondary astatic regulation of frequency. Rev
electrotechn energet 4 no.2:323-332 '59. (EEAI 10:1)
(Frequency)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342030012-5"

POMIRLEANU, M.

ARIE, E.; IONESCU, S.[Ionescu, S.]; NIKOLAE, P.[Nicolae, P.]; POMYRILYANU, M.
[Pomirleanu, M.]

The study on models of the operating conditions of intersystem weak
couplings. Rev electrotechn energet 6 no.1:75-93 '61.

(Electric power distribution)

ARIM, S., Eng.; KOMILOKU, H., Eng.

Problem on the optimum distribution of load between power stations solved by the Mecan-lli analog computer. Energétique. Vol. 13 no. 111-112. 1964. p. 525-544.

IONESCU, Sebastian; POMIREANU, Marius; NICOLAE, Petre

Automatic dispatcher, a device for regulating the frequency
and optimum distribution of the active power in electric systems.
Energetica Rum 9 no.12:481-488 D '61.

SAVOL, M.; POMIRLEANU, V.

Paleogeothermometric studies on complex sulfur deposits localized
in the crystalline schists of the Rumanian Eastern Carpathians. Pt.
3. Anal St Jassy II 9:1-6 '63.

SAVUL, M., acad. prof. dr. [deceased]; POMIRLEANU, V., lector, candidat
in stiinte.

Importance of the statistical method in geothermomentry. Rev
min 15 no.7:321-324 J1 '61

AUTHORS:

Savul, M. A., Ponirleanu, V. V.

7-58-3-4/15

TITLE:

A Statistical Determination Method of the Homogenization Temperature of Liquid Inclusions-Determinations of the Temperature of Quartz Crystallization From Solutions (O statisticheskoy metode opredeleniya temperatury gomogenizatsii zhidkikh vklucheniye- Opredeleniya temperatury kristallizatsii kvartsa iz rastvorov)

PERIODICAL: Geokhimiya, 1958, Nr 3, pp. 206 - 213 (USSR)

ABSTRACT:

The homogenization temperature of liquid inclusions in quartz was determined; a great number of determinations were carried out at the same material in order to eliminate chance errors. The results are compiled in tables; diagrams show the frequency distribution. The curves show clear maxima. The following quartzes were investigated:

- 1) Quartz from the quarry on the Dervent Mal'kochi hill in northern Dobrudja (Severnaya Dobrudzha).
- 2) Quartz from Nikulitel', main vein on the Tugulea hill.
- 3) Quartz from Nikulitel', eastern group of the veins.
- 4) Quartz from Nikulitel', vein 1 on the Deadul'din Miylek hill.

Card 1/3

A Statistical Determination Method of the Homogenization Temperature of Liquid Inclusions - Determinations of the Temperature of Quartz Crystallization From Solutions 7-58-3-4/15

- 5)Quartz from Nikulitel'i, vein 2 on the Deadul'din Miylek hill.
- 6)Quartz from the Gerzha deposit near Baya Mare (Maramuresh), vein "O", horizon Matey.
- 7)Quartz from Gerzha, vein "O", horizon "O"(Yoakhim).
- 8)Quartz from Gerzha, vein "O", horizon II.

Final conclusions: The statistical exploitation of the observations permits the detection of the geothermal gradient and of the geothermal depth stage for the Gerzha deposit. This statistical method has also to be used for the solution of other problems, e.g. alteration of paragenesis with the homogenization temperature, zonal structure in certain hydrothermal deposits, alteration of the habits of minerals combined with temperature fluctuations, prospecting are based upon thermal data, etc. There are 8 figures, 4 tables, and 6 references, 3 of which are Soviet.

Card 2/3

A Statistical Determination Method of the Homogenization Temperature of Liquid Inclusions - Determinations of the Temperature of Quartz Crystallization From Solutions 7-58-3-4/15

ASSOCIATION: Akademiya nauk Rumynskoy Narodnye Respublik i Yasskly universitet im. A. I. Cuza (AS of the Romanian People's Republic and Yassi University imeni A. I. Cuza)

SUBMITTED: January 20, 1958

1. Quartz--Impurities
2. Quartz--Temperature factors
3. Quartz--Geology
4. Liquids--Properties
5. Geochemistry

Card 3/3

POMIRLEANU, V.

Apparatus for determining the homogenization temperature of fluid inclusions
in minerals. p. 119.

ANALELE STIINTIFICE. SECTIUNEA III: STIINTE NATURALE. Iasi. Rumania.
Vol. 5, no. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1,
January 1960.

Uncl.

POMIRLEANU, V.; BARBU, Alexandrina

Petrologic structural and geothermometric research in the mineralization area of the Nistru Valley Basin (Baia Mare). Studii cerc geol 7 no.3/4: 597-608 '62.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342030012-5

BRUK-LEVINSON, T.L.; LUBOCHNIKOV, N.T.; POLYKOVSKAYA, N.A. (Sverdlovsk)

Repeated use of wash waters in pickling sections. Vod. i san. tekhn.
no.10:9-12 '59. (MIRA 13:1)
(Sewage--Purification) (Metals--Pickling)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342030012-5"

POLYKOVSKIY M. D., KAGAN, F. I. and PODKOPAYEV, V. M.

"Investigations on activation of ϵ -protoxine in cultures Clostridium perfringens of the D type."

Veterinariya, Vol. 37, No. 2, 1960, p. 44

(POLYKOVSKIY, M. D., Professor, VIEV F. I. KAGAN and V. M. PODKOPAYEV, Cands. Vet. Sci. GNKI

IONESCU, Sebastian; POMIRLEANU, Marius

Results supplied by the electronic digital computer CIFA-2 at the computation of dynamic conditions in electric-power systems with the running of automatic controllers taken into account. Studii cerc energet 11 no.3:533-550 '61.

Country	: Rumania	D
Category	Cosmochemistry. Geochemistry. Hydrochemistry.	
Aba. Jour.	: Ref Zhur-Khimiya, No 6, 1959	18938
Author	Pomirleanu, V.	
Institut.	Rumanian Academy	
Title	Experimental Studies of the Temperature of Formation of Quartz Crystals at the Hydrothermal Deposit of Herja (Baia Mare Region).	
Orig Pub.	Bull. stiint. Acad. RPK. Sec. geol. si geogr., 1957, 2, No 3-4, 615-623	
Abstract : Presentation of the first results of experiments relating to temperature of formation of quartz crystals at the hydrothermal deposit of Herja. It was ascertained that within the entire field of mineral veins the temperature at which the quartz is formed varies between 190 and 260° in the upper layers and between 220 and 285° in the lower. By plotting histograms which were subsequently converted to formation frequency curves, in order to make possible their comparison, it was found that points of maximum frequency are invariably distributed, in the case of the lower layers, in a sequence that follows the steady increase of temperature. Within the lower (deep level) layers formation of		
Card: 1/2		

REF ID: A6411

RUMANIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42911.

Author : Savul M., Pomirleanu V.

Inst : Rumanian Academy.

Title : Temperature of Formation of Hydrothermal Vein-Quartz
of Submarine Diabases of Niculitel (Rumanian People's
Republic).

Orig Pub: Bul. stiint. Acad. RFR. Sec. geol. si geogr., 1957, 2,
No 2, 311-328.

Abstract: By the method of homogenation of liquid inclusions
a determination was made of the conditions of forma-
tion of quartz closely associated with epidote. It
was ascertained that this paragenesis was deposited
at temperatures above 140°, after which the circulating
hot waters exercised a dissolving action and caused

Card : 1/2

5

POMIRLEANU, V.; BARBU, Alexandrina

Geothermometric and structural petrologic research in the
mineralization zone of the Valea Ilba Basin. Anal St Jassy II
10.11-12 '64.

1. Submitted October 26-27, 1963.

POMISHCHNIKOVA, N.A.; AGROSKIN, L.S.

Ultraviolet fluorescence excitation spectra of irradiated yeast and
their brightness. Radiobiologija 1 no.6:538-8/2 '61. (MIRA 15:2)

1. Institut mikrobiologii AN SSSR, Moskva.
(X RAYS...PHYSIOLOGICAL EFFECT) (FLUORESCENCE)
(ULTRAVIOLET RAYS...PHYSIOLOGICAL EFFECT)

L 31906-66 EWT(d)/FSS-2/EWT(1)/EEC(k)-2/EWP(c) IJP(c) BC

ACC NR: AT5020332

SOURCE CODE: UR/2535/65/000/161/0005/0015

AUTHOR: Pomykayev, I. I. (Candidate of technical sciences)

ORG: none

4/0

B+1

TITLE: The vertical and the relative equilibrium of a mathematical pendulum

SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 161, 1965, Sistemy oriyentatsii i navedeniya latatel'nykh apparatov (Aircraft orientation and guidance systems); sbornik statey, 5-15

TOPIC TAGS: gravitation field, pendulum motion, earth gravity

ABSTRACT: The directions of the gravitational field and the gravity force field, as well as the directions of the geocentric vector and of the normal to the earth's ellipsoid are important in the determination of the flight parameters and in the flight control of aircraft. For purposes of this discussion, the vertical is defined as the direction of the gradient of the potential of the force of gravity field on the geoid's surface. A mathematical pendulum for the determination of the vertical is generally restricted: it is assumed to be infinitely small, and its axis of rotation is located on the geoid's surface. But, if these restrictions are not applicable, the vertical cannot be determined by the plumb direction of such a pendulum. The purpose of this study is to find geometrically an equilibrium position of a mathematical pendulum, tak-

UDC: 531.32(04)

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1. 31906-66

ACC NR: AT5020332

ing the earth as a sphere with an equal volumetric distribution of mass.

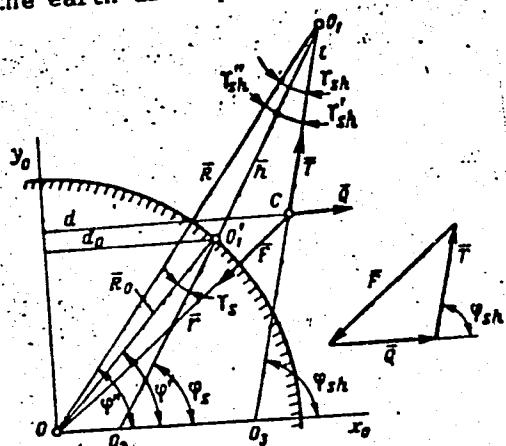


Figure 1.

Figure 1 shows a meridional section of the earth's sphere and the plumb direction of the mathematical pendulum. Here, R_0 is the sphere radius; ϕ' is the geocentric latitude, related to the geographic latitude by the relation $\phi = \phi' + \gamma_0$; γ_0 is the angle defining the equilibrium position of an infinitely short mathematical pendulum with the axis of rotation on the geoid; ϕ_s is the spherical latitude, related to the geocentric latitude by the relation

$\phi_s = \phi' + \gamma_s$; γ_{sh} and γ'_{sh} are the deflection angles of the mathematical pendulum of length l and immobile center of rotation O_1 from the direction of the geocentric vector, and from the vertical O_1O_1'' , respectively; γ''_{sh} is the deflection of the vertical from

Card 2/3

U 31908-66 EWT(d)/EWP(1) IJP(c) JXT(cz)/BC
ACC NR: AT5020334 SOURCE CODE: UR/2535/65/000/161/0029/0055

AUTHOR: Pomykayev, I. I. (Candidate of technical sciences)

50
B+1

ORG: none*

TITLE: A method of determining the transfer ratio and the approximation error of an airspeed indicator

SOURCE: *Moscow. Aviatsionnyy institut. Trudy, no. 161, 1965. Sistemy oriyentatsii i navedeniya letatel'nykh apparatov (Aircraft orientation and guidance systems); sbornik statey, 29-55

TOPIC TAGS: velocity measuring instrument, aircraft guidance equipment, airspeed indicator

ABSTRACT: To define the motion and control of an aircraft, it is necessary to know the horizontal speed component relative to the earth, the airspeed, and special values of the airspeed which define the magnitude of the velocity head. An airspeed indicator is described which includes some extra members, such as a mechanism with a variable transfer ratio for airspeed correction. The correction is applicable to various atmospheric conditions, provided that the aerodynamic forces acting upon the aircraft are the same. Since the calculation of the variable coefficients which are a function of a number of variables, is quite complex, a simplified method is suggested. The method

UDC: 681.2.088 : 629.13.05(04)

Card 1/2

Card 2/2

L 31963-66 EWT(d)/EWT(1)/EWT(m)/EBC(k)-2 JD
ACC NR: AT5020337

SOURCE CODE: UR/2535/65/000/161/0086/0097

AUTHOR: Pomykayev, I. I. (Candidate of technical sciences)

57
BT1

ORG: Aviation Institute (Aviatsionnyy institut)

TITLE: The theoretical basis of the inertial method of measuring acceleration in aerospace systems

9M

SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 161, 1965. Sistemy oriyentatsii i navedeniya letatel'nykh apparatov (Aircraft orientation and guidance systems); sbornik statey, 86-97

TOPIC TAGS: acceleration measurement, space accelerometer, motion equation, space coordinate system

ABSTRACT: The basic equations of absolute and relative motions of accelerometer sensing elements are studied. The inertial method of measuring acceleration in aerospace systems is a method for measuring the magnitude and direction of the acceleration vector in space relative to some coordinate system. The measurement is made by a sensing element, usually a pyrostabilized accelerometer, stabilized with respect to some axis related to either the earth or the airframe. A detailed derivation of the equations of error in such an inertial measuring system is made. The differential equations of motion of the accelerometer pickup subjected to various gravitational effects from the

Card 1/2

L 23553-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)

ACC NR: AP6002948

SOURCE CODE: UR/0286/65/000/024/0109/0110

AUTHORS: Beklemishchev, A. I.; Pomykayev, I. I.

47

6

ORG: none

TITLE: Suspension device for movable parts of instruments. Class 42, No. 177185 [announced by Moscow Aviation Institute im. Sergo Ordzhonikidze (Moskovskiy aviationsionnyy institut)]

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 24, 1965, 109-110

TOPIC TAGS: accelerometer, acceleration transducer

ABSTRACT: This Author Certificate presents a suspension device for movable parts of instruments, e.g., the inertial mass of an accelerometer. The device contains the inertial mass placed in a case with liquid and additional suspension. To increase the accuracy by increasing the mass along the measuring axis (while maintaining a small load on the additional suspension) and to decrease the magnitude of the axial component of the suspension forces, the inertial mass is in the form of a cylinder passing through the case with liquid (see Fig. 1). The

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Card 1/2

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ACC NR: AP6002948

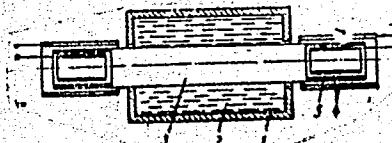


Fig. 1. 1 - case; 2 - liquid;
3 - inertial mass; 4 - electrodes;
5 - electrets.

cylinder is held in the case by surface tension forces in the gaps between the movable part and the case. The additional suspension is in the form of electrodes fastened to the case and of electrets between the electrodes, which are placed on the portions of the inertial mass emerging from the case. Orig. art. has: 1 diagram.

SUB CODE: 14/

SUBM DATE: 10Jul64

Card 2/2 ✓

POMMER, P.

3548. POMMER, P. Ustroystvo Kul'tivirovannykh Pastbishch V Eston'koy SSR i V Nashey Respublike (Lativ. SSR) Riga. Latgosizdat, 1954. 47s 20sm
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SO: Kniznaya Letopis', Vol. 3, 1955

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SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

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Ferenc, dr.

Postoperative aerosol therapy. Orv.hetil. 102 no.8:357-358 19 F'61.

1. Budapesti Orvostudomanyi Egyetem, I. sz. Sebeszeti Klinika.
(POSTOPERATIVE CARE)
(AEROSOLS ther)
(RESPIRATORY SYSTEM dis)

NYILASI, Janos, dr. (Budapest, VIII., Muzeum korut 6-8); POMOGATS, Erzsebet
(Miss) (Budapest, VIII., Muzeum korut 6-8)

Metal complexes of peptides. Pt.3. Acta chimica Hung 43 no.1:
33-44 '65.

1. Lehrstuhl fur Allgemeine und Anorganische Chemie der Lorand
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Metal complexes of amino acids. Pt.7. Magy kem folyoir 71
no.2:47-49 F '65.

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University, Budapest, and Research Group of Inorganic Chemistry
of the Hungarian Academy of Sciences, Budapest. Submitted
February 5, 1964.

S/0126/64/017/C01/0155/0158

ACCESSION NR: AP4013106

AUTHORS: Pomortsev, R. V.; Tsidil'kovskiy, I. M.

TITLE: Motion of conduction electrons in a strong electric field

SOURCE: Fizika metallov i metalloved., v. 17, no. 1, 1964, 155-158

TOPIC TAGS: conduction electron, cubic lattice, strong bond approximation, conductivity

ABSTRACT: Electron motion in the periodic field of a crystal with applied electric and magnetic fields is considered. The periodic field of the crystal causes vibration of the electron with its motion limited to one band with a frequency

$$\omega_0 = \frac{eEu}{\hbar}$$

and amplitude

$$r_0 = \frac{2\Delta\varepsilon}{eE}$$

Card 1/3

ACCESSION NR: AP4013106

It is shown that the effect of the magnetic field is to decrease the vibration frequency of the electron and to increase the amplitude. Taking the time average of v_x including the probability of electron-lattice collision indicates that the conductivity,

$$\sigma \sim E^{-2}.$$

It is concluded that the possibility of observing these effects is increased with better fulfillment of the two conditions mentioned above. This is satisfied in semiconductors with sufficiently narrow energy bands. Orig. art. has: 45 equations.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals AN SSSR)

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ENCL: 00

SUB CODE: SS

NO REF: SOV: 003

OTHER: 000

Card 3/3

POKORTSEY G. N. and PEGOROVICHVA O. D. and DEBYURIN M. A.

"Importance of colored chemical reaction in diagnosis
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Veterinariya, Vol. 38, No. 12, December 1961, P. 65.

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A local factory for the impregnation of lumber is under construction. p. 165.
(PRZEGLAD BUDOWLANY, Vol. 26, No. 6, June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.
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